

SECTION "C"

1. **N. A. Kuznetsov, M. K. Potyrchak, A. F. Kashuba***; *NTU of Ukraine "KPI", Kiyv, Ukraine, *Goldfin Science and Production Company, Khmelnytsky, Ukraine*; **Evolution of Dislocatory Substructures in Carbon Steels with the Wire Drawing with the Subsequent Sagging**
2. **L. D. Sklyar, A. L. Chuzov, V. A. Lyagushov**; *State University of Sea Transport, Odessa, Ukraine*; **Investigation of Plastic Deformation of Austenite Steel Using X-ray Diffractometry and Acoustic Emission Methods**
3. **I. N. Andronov, V. Yu. Zubkov**; *State University of Sea Transport, Odessa, Ukraine*; **Regularities of the Axial Deformation of Materials Under Plastic Torsion**
4. **T. Sysoeva, Y. Abramenzov**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Rational regimes of heating a metal in the sectional furnace**
5. **P. A. Steblyanko, T. V. Krylova**; *State Technical University, Dnepropetrovsk, Ukraine*; **The two-dimensional strength splines at the decision connected non-stationary problems of theory thermal-elastic-plasticity**
6. **A. M. Dolzhanskiy, Y. A. Petl'ovanyy**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Wire-drawing of Rod with the Internal Defects**
7. **M. Dolzhanskiy, Y. A. Petl'ovanyy**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Investigation of Wire-drawing Process of Wire-rod with a "stripe"**.
8. **M. Dolzhanskiy, N. N. Ocheretna**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **The Influence of Twirling Inconstant Loading on Steel Wire Mechanical Properties**
9. **M. Dolzhanskiy, N. N. Ocheretna**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **The Influence of the Wire-drawing Drums Speeds Unbalance on Wire Twirling Deformation**
10. **O. B. Lomova, A. M. Dolganskiy, I. N. Lomov**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Steel Rod Temperature Increase While Moving through a Roller Scale- breaker in a Stream with Drawing**
11. **O. B. Lomova, A. M. Dolganskiy, I. N. Lomov**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Temperature-Power and Deformation Terms Calculation While Rod Moving through a Roller Scale-breaker**
12. **A. M. Dolzhanskiy, O. S. Yermakova**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Influence of Scale in Dry Soap Lubricant on its Antifrictional Properties at the Wire-drawing Process**
13. **M. Dolzhanskiy, O. S. Yermakova**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Efficiency of Roller Scale-breaker Using Upon the Wire-drawing Process**
14. **V. U. Grigorenko, O. S. Nagniy**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Definition Of Actual Parameters For The Process Of Cold-Pilger Rolling Of Tubes**
15. **A. V. Ivchenko, D. Treheux*, K. V. Tabalaev, A. A. Ivchenko**; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine *Ecole Centrale de Lyon, Lyon, France*; **Investigation of the fine structure of reinforcing steel**

- subjected to deformation treatment in the technology cycle of concrete reinforcing parts
16. V. Semichev, R. P. Pogrebnyak, V. N. Danchenko, V. T. Vyshinskiy; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Structure analysis of roll drive mechanisms for cold rolling of pipes mills**
 17. Yu. Proydak, S. Rakhmanov, V. Vyshinsky; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Optimization of production process parameters and tool during pressing of tubes**
 18. S. Rakhmanov, V. Danchenko; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Production of piercing mill mandrels by method of impact-impulse stamping**
 19. V. T. Vyshinsky, V. N. Danchenko, Yu. S. Projdak, S. R. Rakhmanov; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **System-module approach in making the rolling equipment on example of cold pipes' rolling mills**
 20. Yu. G. Gulyayev, A. V. Chuyev, I. A. Solovyeva, N. A. Maximova; *Interpipe Nizhnedneprovsky Tube Works JSC, National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine, National Mining University of Ukraine, Kijev, Ukraine*; **The mathematical model for the stationary process of rolling tubes in a continuous tube reducing mill**
 21. M. V. Popov, V. F. Balakin; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **New processes and technologies in production of pipes with promoted durability and operating properties certain by the micro crystalline structure of metal**
 22. K. S. Bilan, A. S. Golubitskiy; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Methods of intensive plastic deformation and an opportunity of their application in a tube manufacture**
 23. V. Grinkevich; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **The solution of metal forming boundary value problems in real time mode**
 24. I. V. Dobrov; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **The Development of the progressive equipment for production of cold formed steel building wire in accordance with ISO 10544**
 25. V. U. Grigorenko, S. Y. Pylypenko; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Metal widening consideration in an instant center of deformation in calculations of parameters of cold-pilger rolling of tubes with a curvilinear mandrel**
 26. A. V. Semichev; *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine*; **Axial forces reduction mechanisms analysis with reason of thinner wall pipes production on cold rolling mills**
 27. T. Bevilaqua, M. Weiss, P. Brziak*; *Železiarne Podbrezová, Podbrezová, *VÚZ Bratislava, Slovakia*; **Production of tubes grade T24 in Železiarne Podbrezová**
 28. M. Weiss, T. Bevilaqua, T. Kvačkaj*; *Železiarne Podbrezová a.s., Podbrezová, *Metallurgical Faculty, Technical University in Košice, Slovakia*; **Production of steel tubes with controlled rolling in Ž.P. a.s.**
 29. D. Malindžák, I. Košťal, M. Straka, *BERG Faculty, Technical University of Košice, Košice, Slovakia*; **New approach to push furnaces heating optimization**
 30. J. Bidulská, I. Pokorný, T. Kvačkaj; *Department of Metal Forming, Technical University, Košice, Slovakia*; **Non-linear regression models of stress-strain curves of EN AW 2014**

31. Grizelj, D. Grizelj, V. Solto Grizelj, I. Seuček*, N. Šoškić, J. Cumin, I. Jukić, A. Jukić, I. Muhlis Kenter** ; Faculty of Mechanical Engineering, University of Osijek, Slavonski Brod Croatia, *FSB Zagreb Croatia, **Hochschule Bremen, Germany; **Numerical simulation of bending**
32. Grizelj, I. Seuček*, N. Šoškić, J. Cumin, I. Jukić, A. Jukić, I. Muhlis Kenter** ; Faculty of Mechanical Engineering, University of Osijek, Slavonski Brod Croatia, *FSB Zagreb Croatia, **Hochschule Bremen, Germany; **Metal forming production**
33. J. Črnko, P. Jelić, M. Kundak, L. Lazić; Faculty of Metallurgy, University of Zagreb, Sisak, Croatia; **Technological indicators of operation of the rotating-hearth furnace in conditions of discontinued production**
34. Barišić, Z. Car, M. Kršulja, M. Ikonić; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; **Mathematical modeling, simulation and optimization of bulk metal forming process**
35. Barišić, Z. Car, M. Ikonić; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; **Analysis of different modeling approach at determining of backward extrusion force on AlCu₅PbBi material**
36. Blažević, A. Vuković, M. Ikonić; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; **Automation of material tracking in rolling mill process**
37. M. Kršulja, B. Barišić, Z. Car; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; **Analysis of different modeling approach at determining of backward extrusion force on AlCu₅PbBi material**
38. V. V. Chashin*, A. V. Kuklev*, V. I. Slavov, E. S. Popov; JSC "CORAD"*, Moscow, Russia, JSC "Severstal", Therepovets, Russia; **Controlled cooling of coiled hot rolled band – critical stage of forming texture and fine structure in various steel grades**
39. V. N. Serebryany, S. V. Dobatkin, A. S. Gordeev, V. N. Timofeev; A. A. Baikov Institute of Metallurgy and Material Science, RAS, Moscow, Russia; **Texture and microstructure of magnesium alloy after high pressure torsion**
40. V. G. Prokoshkina, L. M. Kaputkina, I.V. Kuznetsov, N. A. Nagurnaja; Moscow Institute of Steel and Alloys, Moscow, Russia; **Hot deformation resistance and hardening of aging nitrogen-containing steels**
41. S. A. Nikulin, V. Khanzhin, V. I. Kopylov*, S. V. Dobatkin** ; Moscow Steel and Alloys Institute (Technological University), Moscow, Russia, *Physico-Technical Institute, National Academy of Sciences of Belarus, Minsk, Belarus, **A. A. Baikov Institute of Metallurgy and Materials Science, Moscow, Russia; **Acoustic emission investigations of submicrocrystalline aluminum alloys during deformation and fracture**
42. A. Glezer, M. Plotnikova, A. Shalimova; I. P. Bardin Central Research Institute for Ferrous Metallurgy, Moscow, Russia; **SPD of amorphous and partly crystallized alloys**
43. Schindler, S. Ruzs, R. Pachlopník*, L. Černý*; Institute of Modelling and Control of Forming Processes, Faculty of Metallurgy and Materials Engineering, VŠB-Technical University of Ostrava, Czech Republic, *ArcelorMittal Ostrava a.s., Czech Republic; **Simple models of hot deformation resistance of microalloyed steels**
44. M. Greger, V. Vodárek, L. Kander*; Faculty of Metallurgy and Materials Engineering, VŠB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic, *Vítkovice - Research and Development, Ostrava-Vitkovice, Czech Republic; **Influence of the ecap method on structure and properties of the low carbon steel**

45. **J. Kliber, S. A. Aksenov, R. Fabík**; *Faculty of Metallurgy and Materials Engineering, VŠB-Technical University of Ostrava, Czech Republic*; **Numerical study of deformation characteristics in pct volume certified following microstructure.**
46. **R. Fabík, J. Kliber**; *Faculty of Metallurgy and Materials Engineering, VŠB-Technical University of Ostrava, Ostrava, Czech Republic*; **Description of kinetics of post-dynamic recovery processes by means of two-stage softening curve**
47. **S. Rusz, P. Kozelský, I. Schindler, J. Bořuta*, M. Cagala, A. Křupala****; *Faculty of Metallurgy and Materials Engineering, VŠB-Technical University of Ostrava, Czech Republic, *Material & Metallurgical Research Ltd., Ostrava, Czech Republic, **Třinecké železářny a.s., Universal Mill Bohumín, Czech Republic*; **Hot plasticity of ledeburitic tool steel tested by various laboratory methods.**
48. **T. Večko Pirtovšek, I. Peruš*, G. Kugler, P. Fajfar, M. Fazarinc, R. Turk, M. Terčelj**, *Department of Materials and Metallurgy, University of Ljubljana, Ljubljana, Slovenia, *Department of Civil Engineering, University of Ljubljana, Ljubljana, Slovenia*; **Towards reliability in the optimisation of steel properties based on industrial data**
49. **T. Večko Pirtovšek, G. Kugler, R. Turk, P. Fajfar, M. Fazarinc, I. Peruš*, D. Bombač, M. Terčelj**; *Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia, *Department of Civil Engineering, University of Ljubljana, Ljubljana, Slovenia*; **Points on improvement the hot deformability of tool steels**
50. **T. Večko Pirtovšek, I. Peruš*, G. Kugler, R. Turk, P. Fajfar, J. Medved, M. Fazarinc, D. Bombač, M. Terčelj**; *Faculty of Natural Science and Engineering, University of Ljubljana, Ljubljana, Slovenia, *Department of Civil Engineering, University of Ljubljana, Ljubljana, Slovenia*; **Improving of hot deformability of AISI D2 tool steel**
51. **P. Fajfar, R. Turk, G. Kugler, M. Fazarinc, D. Bombač, P. Cvahte, M. Terčelj**; *Faculty of Natural Science and Engineering, University of Ljubljana, Ljubljana, Slovenia*; **Increasing of productivity and of mechanical properties of Al hot extruded profile using newly designed die cooling system.**
52. **Bombač, P. Fajfar, G. Kugler, R. Turk**; *Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenija*; **Open die forging pass schedule optimization software**
53. **Bombač, P. Fajfar, M. Terčelj, R. Turk**; *Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenija*; **Hot workability and processing maps of superalloy NIMONIC 80A**
54. **P. Fajfar, M. Terčelj, M. Fazarinc, P. Mrvar, G. Kugler, R. Turk, D. Bombač**; *Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia*; **Hot workability of titan-zinc alloy**
55. **Kosec, M. Brezigar*, M. Bizjak, M. Soković****; *Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia, *ISKRA Avtoelektrika d.d., Šempeter, Slovenia, **Faculty of Mechanical Engineering, University of Ljubljana, Ljubljana, Slovenia*; **Efficiency and quality of heat treatment of cold formed steel forgings**
56. **A. Smolej, B. Skaza, E. Slaček*, V. Dragojevič***; *Faculty of Natural Science and Engineering, University of Ljubljana, Ljubljana, Slovenia, *IMPOL, Aluminium Industry, Slovenska Bistrica, Slovenia*; **Superplasticity of 5083 aluminium alloy with the addition of scandium**
57. **B. Arzenšek, F. Tehovnik, M. Kmetič, B. Arh, F. Vode, J. Gontarev, B. Pirnar*, S. Jakelj*, A. Jaklič***; *Institute of Metals and Technology, Ljubljana, Slovenia*,

- *Acroni d.o.o. Jesenice, Slovenia; Hot rolling of a cast duplex stainless steel saf 2205*
58. **T. Večko Pirtovšek, R. Turk, G. Kugler, M. Terčelj, I. Peruš***; *Faculty of Natural Sciences, Ljubljana, Slovenia, *Faculty of Civil and Geodetic Engineering, Ljubljana, Slovenia; Hot forming of AISI A2 tool steel*
 59. **R. Turk, G. Kugler, M. Terčelj, I. Peruš*, M. Kovačič****, *Faculty of Natural Sciences, Ljubljana, Slovenia, *Faculty of Civil and Geodetic Engineering, Ljubljana, Slovenia, **Štore steel, Ltd, Štore, Slovenia; Genetic programming and cae neural networks approach for prediction of the bending capability of ZnTiCu sheets*
 60. **Panic, J. Dankmeyer-Łączny**; *Faculty of Material Engineering and Metallurgy, The Silesian Technical University, Katowice, Poland; Physical and mathematical modeling of phenomena proceeding with gas – powder two phase flow through moving packed bed in metallurgical shaft furnaces*
 61. **R. Manojlović, Lj. Altiparmakov*, G. Dimovski*, B. Krstevski***; *Faculty of Technology and Metallurgy, University "St. Cyril and Methodius", Skopje, Macedonia; *Maxsteel, Skopje, Macedonia; Mechanical and structural characteristic of hot rolled micro alloyed with vanadium steel sheets*
 62. **Anghelina, R. Kienreich, S. Zamberger, E. Kozeschnik, R. Schneider**; *University of Leoben, Leoben, Austria; Reaction Mechanism and Kinetics for Scale Formation During the Reheating Process of Spring Steels*
 63. **I. Mamuzić, D. Čurčija, F. Vodopivec***; *Faculty of Metallurgy University of Zagreb, Sisak, Croatia, *Institute of Metals and Technology, Ljubljana, Slovenia; Lubricant for the Rolling and Drawing of Metals*
 64. **O. O. Kochubey, I. Mamuzić*, M. V. Polyakov, D. V. Yevdokymov**; *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Faculty of Metallurgy University of Zagreb, Sisak, Croatia; Numerical Calculation of Slow Solid-State Phase Transition*
 65. **V. Živković**; *Steelworks Split, Split, Croatia; Reconstruction of Reinforcing Steel Bars Mill in Steelworks Split*
 66. **I. Alfirević**; *Faculty of Mechanical Engineering and Naval Architecture University of Zagreb, Zagreb, Croatia; A Yield Criterion of Isotropic Materials with Different Tensile and Compressive Yield Point*
 67. **Jakšić**; *Works of Light Metals, Šibenik, Croatia; Optimal Mechanical Properties for Bend of Al-Alloys Group 6000*
 68. **A. Varga, M. Tatič, L. Lazič***; *Faculty of Metallurgy, Technical University, Košice, Slovakia, *Faculty of Metallurgy, University of Zagreb, Sisak, Croatia; Application of the roof radiating burners in large pusher furnaces*
 69. **I. Rajeshkannan, K. S. Pandey*, S. Shanmugam** R. Narayanasamy*****; *Thiagarajar College of Engineering, Thiruparankundram, Madurai, TamilNadu, India; *Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh, India, **National Institute of Technology, Tiruchirappalli, TamilNadu, India, ***National Institute of Technology, Tiruchirappalli, TamilNadu, India; Evaluation of densification behaviour in fe-0.8%c steel preform during cold upsetting*
 70. **V. Shramko, I. Mamuzić*, V. N. Danchenko**; *National Metallurgical Academie of Ukraine, Dnepropetrovsk, Ukraine, *Faculty of Metallurgy, University of Zagreb, Sisak, Croatia; Some examples of using the program qform 2d for solving the problems of manufacturing the wheels for the railway transport*
 71. **R. Barbič, P. Fajfar***; *Impol, d.d., Slovenska Bistrica, Slovenia. *Faculty of Natural Science and Engineering, University of Ljubljana, Ljubljana, Slovenia; Wire drawing force measurements*